

Converting Colors

XYZ(13.8896, 23.1211, 18.9902)

Have a look what the booklet for
XYZ(13.8896, 23.1211, 18.9902)
contains.

XYZ(13.8310, 22.9825, 19.0363)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(13.8310, 22.9825,
19.0363)**

Conversions

Conversions Part 1

Format	Color
Hex	009670
RGB	0, 150, 112
RGB Percent	0%, 59%, 44%
CMY	0.9999, 0.4118, 0.5608
CMYK	1.00, 0.00, 0.25, 0.41
HSL	165°, 100%, 29%
HSV	165°, 100%, 59%
XYZ	13.8310, 22.9825, 19.0363
YIQ	100.8180, -77.2020, -43.6180

Conversions

Conversions Part 2

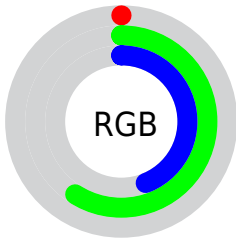
Format	Color
RYB	0, 86, 150
Decimal	38512
CIELab	55.05, -43.28, 10.67
CIELCh	55, 44.574, 166.145
Yxy	22.9825, 0.2476, 0.4115
Android (android.graphics.Color)	4278228592 (0xFF009670)
YUV	100.8180, 5.5127, -88.4174
Hunter-Lab	47.9401, -32.3968, 10.0149

Details

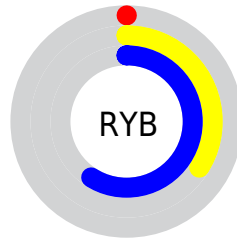
The XYZ color **13.8310, 22.9825, 19.0363** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **12.9284, 6.6247, 2.4326**, and the grayscale version is **12.3248, 12.9667, 14.1207**.

A 20% lighter version of the original color is **32.3699, 48.3214, 42.7429**, and **5.2931, 9.1055, 6.3291** is the 20% darker color. If you saturate the color by 10%, you get **13.8312, 22.9832, 19.0355**, and if you desaturate by 10%, it is **14.2449, 23.1715, 20.1844**.

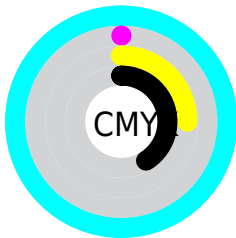
Distribution



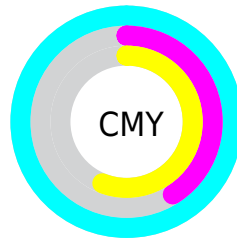
- Red (0%)
- Green (59%)
- Blue (44%)



- Red (0%)
- Yellow (34%)
- Blue (59%)



- Cyan (100%)
- Magenta (0%)
- Yellow (25%)
- Black (41%)



- Cyan (100%)
- Magenta (41%)
- Yellow (56%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.8310, 22.9825, 19.0363 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 13.8310, 22.9825, 19.0363 by changing the saturation by 10% instead.

■ 13.8310, 22.9825,
19.0363

■ 13.8310, 22.9825,
19.0363

209.7086,
267.6351, 259.0785

■ 8.0841, 14.5806,
11.5194

■ 32.3776, 48.3646,
42.6329

■ 4.2011, 8.5256,
6.2988

■ 45.9081, 66.1136,
59.5498

■ 1.8165, 4.4330,
2.9559

■ 62.7638, 87.7470,
80.4371

■ 0.5276, 1.9186,
1.0722

■ 83.3102, 113.6493,
105.7133

■ 0.0000, 0.5595,
0.0000

■ 107.9125,
144.2049, 135.7970

■ 0.0000, 0.0000,
0.0000

■ 136.9361,

179.7981, 171.1067

170.7463,
220.8134, 212.0611

■ 13.8310, 22.9825,
19.0363

■ 13.8310, 22.9825,
19.0363

■ 13.8312, 22.9832,
19.0355

■ 14.2449, 23.1715,
20.1844

■ 14.8087, 23.4361,
21.3862

■ 15.5901, 23.8119,
22.6459

■ 16.6154, 24.3123,
23.9653

■ 17.9068, 24.9488,
25.3460

■ 19.4844, 25.7318,
26.7894

■ 21.3661, 26.6704,
28.2969

■ 23.5682, 27.7731,
29.8697

■ 26.1059, 29.0477,
31.5091

Harmonies

Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



15.6633, 22.9825, 10.4691



13.8310, 22.9825, 19.0363



13.9038, 22.9825, 33.4136

Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



13.8310, 22.9825, 19.0363



24.6050, 22.9825, 61.4999



29.1409, 22.9825, 10.0433

Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



13.8310, 22.9825, 19.0363



12.9284, 6.6247, 2.4326

Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



32.3460, 22.9825, 18.1713



13.8310, 22.9825, 19.0363



29.4686, 22.9825, 49.1204

Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



13.8310, 22.9825, 19.0363



19.6389, 22.9825, 62.0157



32.4743, 22.9825, 32.1516



24.2087, 22.9825, 6.7693

Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



13.8310, 22.9825, 19.0363



15.0120, 22.9825, 44.8399



32.4743, 22.9825, 32.1516



30.4867, 22.9825, 12.1233

Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



13.8316, 22.9834, 19.0368



37.4892, 46.9579, 49.7725



11.7824, 22.2648, 3.6771



8.0171, 10.2612, 10.8040



71.1368, 74.8414, 81.5023



11.3376, 11.9280, 12.9896

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



13.8316, 22.9834, 19.0368



24.3348, 40.5296, 33.2064



11.6368, 14.4650, 31.0338



5.9020, 6.5374, 7.0947



11.4842, 19.0665, 15.8573



0.1524, 0.2381, 0.2566

Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



12.9284, 6.6247, 2.4326



22.7534, 11.6655, 3.9695



13.1796, 7.6872, 0.7896



5.8575, 5.8381, 6.3558



10.7334, 5.4984, 2.0770



0.1418, 0.0715, 0.0805

Previews

White Background



This preview shows how the XYZ color 13.8310, 22.9825, 19.0363 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 13.8310, 22.9825, 19.0363 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 13.8310, 22.9825, 19.0363

Background



This preview shows how black text looks on a background with the XYZ color 13.8310, 22.9825, 19.0363.



This preview shows how white text looks on a background with the XYZ color 13.8310, 22.9825,

Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color

13.8310, 22.9825, 19.0363

Protanopia

21.3797, 22.7873, 16.1035

Deuteranopia

23.0662, 22.5956, 19.9753



Tritanopia

17.1929, 22.9752, 34.9810

Trichromacy



Original Color

13.8310, 22.9825, 19.0363



Protanomaly

15.8098, 21.3414, 16.9217



Deuteranomaly

16.4778, 20.9986, 19.4043



Tritanomaly

15.5776, 22.7425, 28.3797

Monochromacy



Original Color

13.8310, 22.9825, 19.0363



Achromatopsia

12.3695, 13.0136, 14.1719



Achromatomaly

11.2610, 15.3036, 15.7250

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.8310, 22.9825, 19.0363 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(0, 150, 112)` looks like.

```
.text, #text, p{  
    color:rgb(0, 150, 112)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(0, 150, 112) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 150, 112) }
```

Border

The CSS property to change the border of an element to XYZ 13.8310, 22.9825, 19.0363 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(0, 150, 112) }
```


If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(0, 150, 112) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(0, 150, 112)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 150, 112); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 150, 112);  
box-shadow:4px 4px 4px 4px rgb(0, 150,  
112) }
```

Background

The CSS property to change the background color of an element to XYZ 13.8310, 22.9825, 19.0363 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 150, 112) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(0, 150,  
112) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor